

Ser. No.10/029,645
Amdt. dated October 4th, 2006
Reply to Office action of July 5, 2006

PU010322

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Remarks/Arguments

Please delete claims 2, and 11-20, amend the remaining claims as shown in the attachment and make the following argument on our behalf.

35 U.S.C. §102

Claims 1-5, 7-15, 17-25, and 27-30 stand rejected under 35 U.S.C. §102(e) as being anticipated by Luly et al., (US Patent 20020140617).

It is respectfully submitted that Luly et al., does not teach or remotely suggest:

"a signal transmitting means coupled between said first and second connections to said first and second antennas and said third connection to said signal processor" ... "wherein said first down-converted signal, said second down-converted signal, and said third RF signal are present at said third connection to said signal processor simultaneously.

as recited by the presently amended claim 1. Furthermore, Wilson et al., does not address the same problem nor provide the same solution to this problem.

The problem addressed in the subject application is the inability to effectively provide simultaneous two way communications between a plurality of satellites and a satellite set top box. Simultaneous two way communications will permit the service provide to simultaneously provide multiple formats of information, such as video content and interactive internet protocol content. Currently, information sent by the user, such as purchase information or internet requests are sent by telephone. This is undesirable since it requires the user to have telephone line access, thereby eliminating use in remote areas. To provide a superior service it is also desirable that the two way communications occur simultaneously without interruption of other services, such as video content delivery.

To solve this problem, the subject application discloses an apparatus having a first and second signal receiving means and a first transmitting means. Each receiving means is connected between its own antenna and a common signal processing device. Each

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receiving means downconverts its received signal independently of the other receiving means. The transmitting means is connected between the common signal processing device and at least one antenna. The transmitting means transmits at a frequency not currently used by the transmitting means connected to the same antenna.

In the exemplary embodiment given in the specification the system comprises a first antenna and a second antenna, a first transmitting means, a first receiving means and a second receiving means, and a connection to a signal processing device. (Figure 1, page 4, line 19) The first receiving means is connected between the first antenna and the connection to the signal processing device. The second receiving means is connected between the second antenna and the connection to the signal processing device. The first transmitting means is connected between the connection to the signal processing device and one of the first or second antennas. Since each of the transmitting means and the receiving means operate independently, they can simultaneously operate without interrupting the operation of the other means.

It is respectfully submitted that the solution disclosed in the subject application is neither described nor remotely suggested by Luly et al. Luly et al., teaches a system wherein a first antenna is used to receive a first Ku band signal (first feed horn at prime focus) and a second antenna (second feed horn at image focus) is used transmit and receive an RF signal in the Ka band. (Page 2, ¶19-20) These two antennas are co-located to take advantage of the same parabolic reflector. (page 2, ¶22) Luly et al., does not teach or suggest " a signal transmitting means coupled between said first and second connections to said first and second antennas and said third connection to said signal processor" as recited by the currently amended claim 1. Luly et al., does not teach or suggest simultaneously transmitting and receiving from the same antenna, nor does it teach a system which can transmit from either the first or second antenna.

It is for these reasons that it is submitted that claim 1 is allowable. Such action is respectfully requested. Furthermore, it is submitted that independent claim 21 is allowable for at least the same reasons that claim 1 is allowable. Such action is respectfully requested. Since dependant claims 2-9 and 22-30 are dependant from allowable claims 1 and 21 respectively, it is submitted that they too are allowable for at least the same reasons

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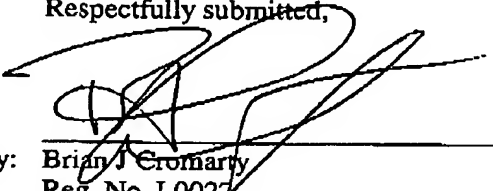
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for which their respective independent claims are allowable. Such action is respectfully requested.

Having fully addressed the Examiner's rejections it is believed that, in view of the preceding amendments and remarks, this application stands in condition for allowance. Accordingly then, reconsideration and allowance are respectfully solicited. If, however, the Examiner is of the opinion that such action cannot be taken, the Examiner is invited to contact the applicant's representative at (609) 734-6804, so that a mutually convenient date and time for a telephonic interview may be scheduled.

No fee is believed due. However, if a fee is due, please charge the additional fee to Deposit Account 07-0832.

Respectfully submitted,


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